

# ImageGrid 1500 PACS



## Highlights

- RAID 6 archiving with initial capacity points of 3, 6, 9 and 11.25 terabytes (TB), easily expandable to well over 100 TB
- Optional web-based DICOM viewer
- Multiple AE titles on the system for archive partitioning
- Manual and Automated routing: DICOM, ftp, rcp, sftp
- No additional licensing for adding modalities and workstations
- Embedded database with a proven ability to handle 100 million images
- Ability to attach encapsulated user documents (e.g. a PDF report) in DICOM format to the study and archiving
- Automatic rule-based and HIPAA-compliant storage retention
- Automated “pre-fetching” of studies
- Optional Modality Worklist (MWL), Modality Performed Procedure Step (MPPS) and Departmental Scheduling System (DSS) support
- Optional embedded HL7 support for integration with RIS/ HIS
- Integration with Sony AIT tape library as an option for back-up for HIPAA Compliance
- Web-based system administration and operator interface

## ImageGrid™ PACS Appliance

### Price, Performance and Reliability

The paradigm shift that was needed to significantly lower the cost of PACS has occurred. Introducing the ImageGrid™ 1500 PACS Appliance: A fully integrated DICOM Storage and DICOM Application Server, compatible with any DICOM modality and most DICOM viewing workstations, including leading volumetric imaging workstations. With the feature-rich ImageGrid PACS Appliance, you can reduce your IT costs while benefiting from many of the features and capabilities that are important to your operations.

### 64-Slice CT & MRI Studies

With ImageGrid, managing and archiving studies from data intensive modalities like 64-Slice CT and MRI has become easier and less costly, allowing imaging centers to focus on patient care and profitable growth. ImageGrid's integrated platform and embedded database has been optimized for large 64-slice CT studies, some of which can be as large as 5 gigabytes.

### Versatility

ImageGrid PACS Appliance is extremely versatile. With ImageGrid, hospitals, diagnostic imaging centers, multi-location practices and multi-physician clinics as well as breast imaging centers have been able to cost-effectively implement PACS and keep more and more studies on-line and therefore easily accessible to physicians. In hospitals or facilities with an existing PACS, ImageGrid has also been deployed as a “dedicated” PACS for 64-Slice CTs, fully compatible with an enterprise PACS.

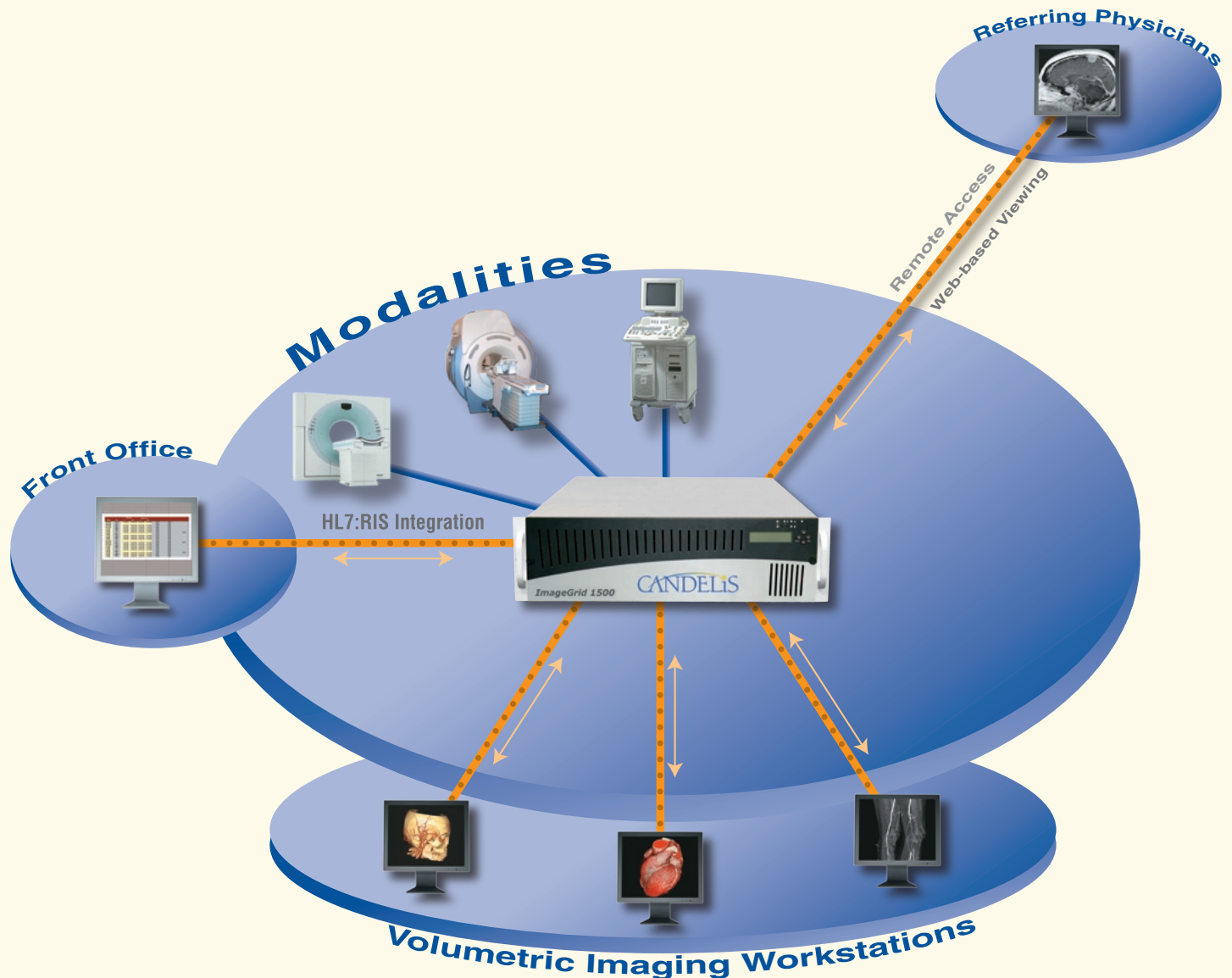


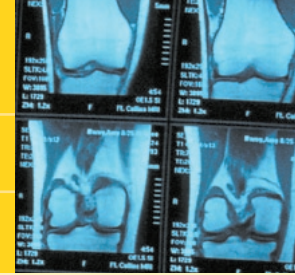
## Single Location Multi-Modality Diagnostic Imaging Centers and Clinics

ImageGrid can be an ideal cost-effective PACS for multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities

can easily send images to ImageGrid for archiving and subsequent routing (push and pull) to/from workstations on the network. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities. With HIPAA mandating duplicate copies of patient files including imaging

studies, a second ImageGrid can be deployed at a secure off-site locations and a copy of all studies can be routed to the second system automatically based on rules, policies and guidelines, which can easily be set up through the web-based user interface.





## “Dedicated” PACS for a 64-Slice CT in facilities with or without PACS

ImageGrid has a well established track record as a “dedicated PACS” for the data intensive 64-slice CT in environments with or without PACS. A 64-slice CT can generate several times more data as compared to most other modalities, and in facilities with PACS, this has led to the rapid filling of the costly yet meager archive. By “isolating”

or “decoupling” the 64-slice CT from the legacy PACS and routing it instead to the significantly more cost-effective and always-online ImageGrid PACS, administrators

are able to extend the life of their legacy PACS’ costly storage. The legacy PACS can still DICOM query/retrieve the 64-Slice CT studies if necessary.

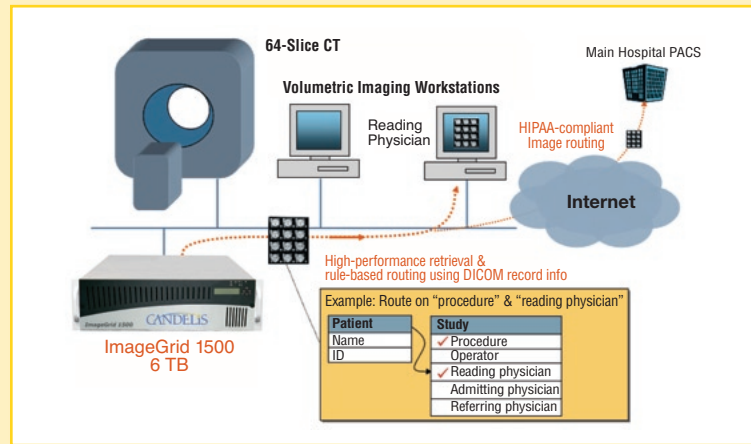
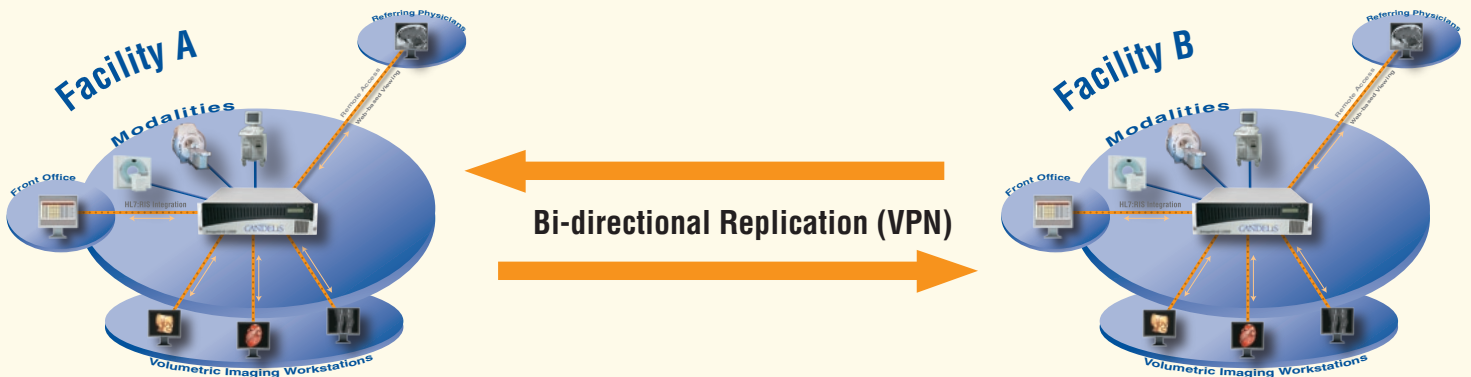


Figure 1: “Dedicated” PACS for a 64-Slice CT in a large university hospital with existing enterprise PACS

## Multi-Location, Multi-Physician and Multi-Modality Diagnostic Imaging Centers and Clinics



ImageGrid can be an ideal cost effective PACS and teleradiology server for multi-location, multi-physician and multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities at any number of locations can easily send images to their respective ImageGrid for archiving and subsequent routing (push and pull) to/from

workstations on the local area network (LAN) or between different locations via Virtual Private Networks (VPN) connectivity. All studies can be effectively backed up for HIPAA compliance through the automated, rule-based routing to the second system or designated system if there are more than two systems. In this scenario, each facility

has a full-scale ImageGrid PACS on-site and ImageGrid intelligent software manages the flow of data between facilities based on rules and guidelines. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities.



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## System Features

### Built-in Storage

- Up to 15-drive RAID 6 disk array with Hot Swappable drives for primary image storage

### Setup and Configuration

- Complete Web-based user interface for system administration

### Network Connection

- Dual port auto-sensing gigabit NIC
- Supports DHCP, ARP

### Optional Kits

- Optional gigabit ethernet NIC
- UPS
- Tape backup unit
- HL7 Support

### Viewing Software

- Supports any DICOM-compatible viewer
- Optional integrated web-based viewer

### CPU

- Intel XEON™ class
- Up to 16GB DDR2 SDRAM
- 800Mhz system bus
- 2MB of level 2 processor cache

### System Protection

- Redundant Hot Swappable power supplies
- Hot Swappable hard drives
- Redundant cooling fans
- Automatic Hot Spare drive(s)

## Specifications

### Storage, Raw Capacity

- Base system: 3 to 11.25 TB
- Expansion units: to over 100 TB
- All disk storage configured as RAID 6 arrays

### Agency Certifications

- CSA, CSAus, FCC Class A, CE

### Physical

- Width: 19 in (48.26 cm)
- Height: 5.25 in (13.34 cm), 3U
- Depth: 25.6 in (65 cm)
- Weight: 72 lbs (32.7 kg)

### Power

- Power Rating: 100-240 VAC, 47-63Hz, auto-ranging
- Input Current (max): 12.0A (RMS) @ 100VAC, 5.0A (RMS) @ 240VAC
- Power Consumption: 550W (typical), 800 (maximum)

### Heat Dissipation

- 1440 BTU/hr (maximum)

### Operating Environment

- 50°F to 95°F (10°C to 35°C)
- 15% to 80% humidity (non-condensing)
- Altitude: 0 ft to 10,000 ft (0m to 3,048m)

### Non-operating Environment

- 14°F to 140°F (-10°C to 60°C)
- 5% to 90% humidity (non-condensing)
- Altitude: 0 ft to 40,000 ft (0m to 12,192m)